

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

ORDER NO. R7-2002-0168

WASTE DISCHARGE REQUIREMENTS
FOR
U.S. DEPARTMENT OF THE NAVY
SOUTHWEST DIVISION NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR FACILITY, EL CENTRO, CALIFORNIA

CLOSURE OF INSTALLATION RESTORATION PROGRAM SITE 1 (MAGAZINE RD. LANDFILL)

The California Regional Water Quality Control Board, Colorado River Basin Region, finds that:

1. In 1987, the United States Department of the Navy (DON), Southwest Division Naval Facilities Engineering Command, (hereinafter referred to as the discharger) whose current postal address is 1220 Pacific Highway, San Diego, California 92132-5181, in compliance with the United States Department of Defense (DOD) Installations Restorations (IR) program of 1980, conducted a Preliminary Assessment Site Inspection (PA/SI) of the Naval Air Facility (NAF) El Centro, California.
2. The Magazine Road Landfill (hereinafter referred to as the Landfill) is located southeast of the intersection of Magazine Road and Patrol Road in the northern portion of NAF, El Centro as shown on the Location Map appended to and made a part of this Board Order. The total area occupied by the Landfill is approximately 5.5 acres.
3. The discharger reports that the landfill was operated as a municipal landfill between 1965 and 1983. During this time, waste management practices included monthly burning of waste.
4. It is estimated that, the Landfill's waste stream consisted of 60 percent municipal solid waste, and 40 percent industrial waste including metal plating wastes, asbestos, water-bearing fuels, used lubricating oil and hydraulic fluids, paints, solvents, photographic chemicals, sandblasting grit, pesticides, batteries and spent cartridges
5. The discharger reports that operations stopped at the Landfill in 1983. An estimated total of 90,000 cubic yards of waste had been disposed of at the Landfill. All landfilled wastes were covered with approximately 24 inches of silty sand as intermediate cover.
6. Sampling indicates that the undisturbed wastes at Site 1 are classified as Class II, Class III, or inert. Additionally, wastes removed from IR Sites 3 and 8 were sampled and sorted, and then only wastes classified as inert were discharged at Site 1 for consolidation.
7. The discharger evaluated 16 sites at NAF, El Centro for potential contamination. The Magazine Road Landfill or IR Site 1 was among the 14 sites selected for further investigation.
8. Pursuant to the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and National Contingency Plan (NCP) as codified in 40 CFR Part 300, and California Health and Safety Code, the discharger prepared a Final Action Memorandum/Remedial Action Work Plan (RAWP), including an Engineering Evaluation/Cost Analysis (EE/CA), for the non-time-critical removal actions at the Landfill. In the EE/CA, Chapter

15 Division 3, Title 23, California Code of Regulations (Chapter 15) was identified as an applicable or relevant and appropriate requirement (ARAR). Pursuant to AB 1220, Chapter 15 was moved to Division 2, Title 27, California Code of Regulations (Title 27). Therefore, Title 27 is an ARAR for the removal actions at the Landfill.

9. In the RAWP, the discharger recommended the construction of a monolithic cap over the Landfill. The Final Work Plan for the construction of the monolithic cap was approved by the California Department of Toxic Substances Control (DTSC) on April 8, 1998. DTSC is the California State lead agency for cleanup oversight at the Landfill.
10. In 1998, the discharger completed the construction of the monolithic cap over the Landfill in accordance with the Final Work Plan dated October 1, 1997. As built, the monolithic cap comprises the following, listed in order from top down:
 - a) A six-inch thick protective gravel layer laid at a minimum grade of three (3) percent, overlying:
 - b) A minimum of 48 inch thick silty to clayey sand monolithic final cover with a maximum hydraulic conductivity of 1.4×10^{-5} cm/s, overlying:
 - c) A geo-synthetic clay liner (GCL).

Furthermore, additional design components are as follows:

- a) A minimum side slope of three (3) (horizontal) to one (1) (vertical).
 - b) Two (2) permanent survey monuments, for monitoring settlement at the closed landfill.
 - c) A lined drainage canal constructed around the base of the final cover.
11. This Board Order updates the Waste Discharge Requirements (WDRs) to reflect changes in monitoring well locations and to comply with current laws and regulations as set forth in the California Water Code and the California Code of Regulations.
 12. The New River and the Elder Canal are the major surface water bodies located within one (1) mile of the Landfill. The base lies within the Imperial Irrigation District network of minor irrigation canals and drainage ditches, some of which are located within a one (1) mile radius of the landfill.
 13. Groundwater samples (Attachment No. 2) beneath the Landfill, collected by the discharger in 1991 and 1992, contained total dissolved solids (TDS) concentrations varying from 2000 milligrams-per-liter (mg/l) to 30,000 mg/l. The United States Environmental Protection Agency (USEPA) secondary maximum contaminant level for TDS is 500 mg/l. Pursuant to State Water Resources Control Board (SWRCB) "Source of Drinking Water" policy, Resolution No. 88-63, surface and ground waters having a TDS concentration greater than 3000 mg/l are not suitable for municipal or domestic water supply.
 14. The Water Quality Control Plan for the Colorado River Basin Region of California (Basin Plan) was adopted on November 17, 1993 and designates the beneficial uses of ground and surface waters in this Region.
 15. The designated beneficial uses of ground waters in the Imperial Hydrologic Unit are:
 - a. Municipal supply (MUN)
 - b. Industrial supply (IND)
 16. In accordance with Section 15301, Chapter 3, Title 14 of the California Code of Regulations, the issuance of these WDRs, which govern the operation of an existing facility involving negligible or

no expansion of use beyond that previously existing, is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et seq.)

17. Within the Imperial Valley area of the Imperial Hydrologic Unit, much of the ground water is too saline for municipal use.
18. The Board has notified the discharger and all known interested agencies, and persons of its intent to prescribe WDRs for said discharge and has provided them with an opportunity for a public meeting and an opportunity to submit comments.
19. The Board in a public meeting heard and considered all comments pertaining to this discharge.
20. The USEPA promulgated federal regulations for storm water discharges on November 1990 (40 CFR, Parts 122, 123, and 124). The regulations require that specific categories of facilities, which discharge storm water associated with industrial activities, obtain a NPDES Permit and implement Best Conventional Pollutant Technology (BCPT) to reduce or eliminate industrial storm water pollution.
21. The SWRCB adopted Order No. 97-03-DWQ (General Permit No. CAS000001), specifying WDRs for discharges of storm water associated with industrial activities, excluding construction activities, and requiring submittal of a Notice of Intent (NOI) by industries to be covered under the Permit.

IT IS HEREBY ORDERED, that Board Order No. 99-010 is rescinded, and that in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, the discharger shall comply with the following:

A. Prohibitions

1. The discharge or deposit of any waste at this Landfill is prohibited.
2. The discharge shall not cause degradation of any water supply.
3. The direct discharge of any waste to any surface waters or surface drainage courses is prohibited.
4. The discharge of waste to land not owned or controlled by the discharger is prohibited.
5. The discharge shall neither cause nor contribute to the contamination or pollution of ground water via the release of waste constituents in either liquid or gaseous phase.
6. The discharge shall not cause any increase in the concentration of waste constituents in soil-pore gas, soil-pore liquid, soil, or other geologic materials outside of the Landfill if such waste constituents could migrate to waters of the State, in either the liquid or the gaseous phase, and cause a condition of contamination or pollution.

B. Specifications

1. The Landfill shall be protected from any washout or erosion of wastes or covering material, and from any inundation which could occur as a result of floods having a predicted frequency of once in 100 years.
2. Waste materials shall be confined to the Landfill as described on Attachment No 2.
3. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources, shall not contact or percolate through the wastes discharged at the Landfill.

4. The exterior surfaces of the monolithic cap shall be graded and maintained to promote lateral runoff of precipitation and to prevent ponding.
5. The discharger shall implement the attached Monitoring and Reporting Program No. R7-2002-0168 and revisions thereto, in order to detect, at the earliest opportunity, any unauthorized release of waste constituents from the Landfill, or any unreasonable impairment of beneficial uses of surface and ground water associated with (caused by) discharges of waste to the Landfill.
6. The discharger shall not cause the concentration of any Constituent of Concern or Monitoring Parameter to exceed its respective background value in any monitored medium at any Monitoring Point assigned to Detection Monitoring pursuant to Part II.B.4. of the attached Monitoring and Reporting Program No. R7-2002-0168 and revisions thereto.
7. The discharge shall not cause the release of pollutants, or waste constituents in a manner which could cause a condition of contamination, pollution, or nuisance to occur, as indicated by the most appropriate statistical (or non-statistical) data analysis method and retest method listed in Part III of the attached Monitoring and Reporting Program No. R7-2002-0168 and revisions thereto.
8. The Discharger shall comply with the Water Quality Protection Standards (WQPS) for Detection Monitoring established by the Regional Board in this Board Order pursuant to Section 20390, Title 27. The following are five (5) parts of the WQPS as established by the Regional Board (the terms of art used in this Board Order regarding monitoring are defined in Part I.B. of attached Monitoring and Reporting Program No. R7-2002-0168, and revisions thereto, which is hereby incorporated by reference):
 - a. Constituents of Concern The list of Constituents of Concern (1) for water-bearing media (i.e. ground water, surface water, and soil pore liquid) consists of the combined listing of all constituents in Appendices I and II to 40 CFR Part 258 in addition to TDS, Sulfate, Carbonate, pH, and chloride and (2) for soil pore gas consists of all volatile organic constituents (VOCs) detectable via gas chromatography. Constituents of Concern, and many other terms of art used in this Order, are defined in Parts I.B.1. through I.B.12. of the attached Monitoring and Reporting Program No. R7-2002-0168, which program is hereby incorporated by reference.
 - b. Concentration Limits For each Monitoring Point assigned to a Detection Monitoring Program (M&R Part II.B.4.), the Concentration Limit for each Constituent of Concern (or Monitoring Parameter) shall be its background value as obtained during that Reporting Period (defined in M&R Part I.B 10), as follows:
 1. If 10% or more of the samples taken during a given Reporting Period from the Background Monitoring Points for a monitored medium exceed their respective Facility-Specific Method Detection Limit (MDL) - see M&R Part I.B.8. - for a given constituent, then the Concentration Limit for that medium and constituent shall consist of the mean (or median, as appropriate) and the standard deviation (or other measures of central tendency, as appropriate) of all the background data obtained for that constituent from the medium during that Reporting Period; otherwise
 2. The Concentration Limit for that medium and constituent shall be its MDL.
 - c. Monitoring Points and Background Monitoring Points for Detection Monitoring (Section 20415, Title 27) shall be those listed in II.B.4. of attached Monitoring and Reporting Program No. R7-2002-0168, and any revised Monitoring and Reporting Program approved by the Regional Board's Executive Officer. Monitoring Points and Background Monitoring Points are shown on Attachment 2, which is made a part of this Board Order by reference.

- d. Points of Compliance (Section 20405, Title 27) shall be those Monitoring Points listed in Part II.B.4. of the attached Monitoring and Reporting Program No. R7-2002-0168, and revisions thereto.
 - e. Compliance Period The estimated duration of the compliance Period for this Landfill is 30 years. Each time the Standard is broken (i.e., a release is discovered), the Landfill begins a Compliance Period on the date the Regional Board directs the discharger to begin an Evaluation Monitoring Program. If the discharger's Corrective Action Program (CAP) has not achieved compliance with the Standard by the scheduled end of the Compliance Period, the Compliance Period is automatically extended until the Landfill has been in continuous compliance for at least three consecutive years.
9. Additional Monitoring Points or Background Monitoring Points. The discharger shall, in a timely fashion, install any additional ground water, soil-pore liquid, soil-pore gas, or leachate monitoring devices required to fulfill the terms of any Discharge Monitoring Program issued by the Regional Board's Executive Officer.

C. Provisions

- 1. The discharger shall comply with Monitoring and Reporting Program No. R7-2002-0168, and revisions thereto, as specified by the Regional Board's Executive Officer.
- 2. This Board Order does not authorize violation of any federal, state, or local laws or regulations.
- 3. The discharger shall allow the Regional Board, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:
 - a. Enter upon the premises regulated by this Board Order, or the place where records must be kept under the conditions of this Board Order;
 - b. Have access to and copy, at reasonable times, any records that shall be kept under the conditions of this Board Order;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Board Order; and
 - d. Sample or monitor at reasonable times, for the purpose of assuring compliance with this Board Order or as otherwise authorized by the California Water Code, any substances or parameters at this location.
- 4. The discharger must comply with all of the conditions of this Board Order. Any noncompliance with this Board Order constitutes a violation of the Porter-Cologne Water Quality Control Act and is grounds for enforcement action.
- 5. This Board Order does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
- 6. The discharger shall comply with the following:
 - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
 - b. The discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Board Order, for a period of at least 5

years from the date of the sample, measurement or report. This period may be extended by request of the Regional Board's Executive Officer at any time.

c. Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements.
 2. The individual(s) who performed the sampling or measurements.
 3. The date(s) analyses were performed.
 4. The individual(s) who performed the analyses.
 5. The results of such analyses.
7. Unless otherwise approved by the Regional Board's Executive Officer, all analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services. All analyses shall be conducted in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the USEPA.
 8. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the discharge facilities inoperable.
 9. The discharger is the responsible party for the WDRs and the monitoring and reporting program for the Landfill. The discharger shall comply with all conditions of these WDRs. Violations may result in enforcement actions, including Regional Board Orders or court orders, requiring corrective action or imposing civil monetary liability, or in modification or revocation of these WDRs by the Regional Board.
 10. The discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances), which are installed or used by the discharger to achieve compliance with conditions of this Board Order.
 11. All maintenance performed will be reported with the monitoring reports as required.
 12. The discharger shall furnish, under penalty of perjury, technical monitoring program reports, and such reports shall be submitted in accordance with the specifications prepared by the Regional Board's Executive Officer and detailed in Monitoring and Reporting Program No. R7-2002-0168. Such specifications are subject to periodic revisions as may be warranted.
 13. The discharger may be required to submit technical reports as directed by the Regional Board's Executive Officer.
 14. All storm water discharges from this facility must comply with the lawful requirements of municipalities, counties, drainage districts, and other local agencies, regarding discharges of storm water to storm water drain systems or other courses under their jurisdiction.
 15. The Discharger shall submit a Notice of Intent (NOI) to the SWRCB to be covered under the Statewide General NPDES Permit for Storm Water Discharges Associated with Industrial Activities, Order No. 97-03-DWQ, NPDES No. CAS000001. The Discharger shall comply with all the discharge prohibitions, receiving water limitations, and provisions of the General Permit.
 16. The Discharger shall submit a sampling and monitoring plan for storm water discharges to the Regional Board's Executive Officer for review and approval no later than 90 days after the adoption of this Board Order. The plan shall meet the minimum requirements of Section B., Monitoring and Reporting Requirements of the Statewide General NPDES Permit for Storm Water Discharges Associated with Industrial Activities, Order No. 97-03-DWQ, NPDES No CAS000001.
 17. Storm water discharges from the facility shall not cause or threaten to cause pollution or contamination or nuisance.

18. The discharger shall immediately notify the Regional Board of any flooding, slope failure or other change in site conditions, which could impair the integrity of waste containment facilities or of precipitation and drainage control structures.
19. The discharger shall maintain visible monuments identifying the boundary limits of the entire waste management facility.
20. The discharger shall comply with all applicable provisions of Title 27 that are not specifically referred to in this Board Order.
21. Annually, prior to the first day of November, any necessary erosion control measures shall be implemented and any necessary construction, maintenance, or repairs of precipitation and drainage control facilities shall be completed to prevent erosion or flooding of the site; and the report thereon shall be submitted to the Regional Board by November 15 of each year.
22. This Board Order is subject to Regional Board review and updating, as necessary to comply with changing State or Federal laws, regulations, policies, or guidelines, or changes in the discharge characteristics.
23. The Regional Board considers the property owner to have a continuing responsibility for correcting any problems, which may arise in the future as a result of this waste discharge.
24. The discharge shall neither cause nor contribute to the contamination or pollution of ground water via the release of waste constituents in either liquid or gaseous phase.
25. The discharger shall comply with all prohibitions, specifications and provisions of this Board Order immediately upon adoption of this Board Order.
26. At any time, the discharger may file a written request (including appropriate supporting documents) with the Regional Board's Executive Officer, proposing appropriate modifications to the Monitoring and Reporting Program. The request may address changes:
 - a. To any statistical method, non-statistical method, or retest method used with a given constituent or parameter;
 - b. To the manner of determining the background value for a constituent or parameter;
 - c. To the method for displaying annual data plots;
 - d. To the laboratory analytical method used to test for a given constituent or parameter;
 - e. To the media being monitored (e.g., the addition of soil-pore gas to the media being monitored); or
 - f. To the number or placement of Monitoring Points or Background Monitoring Points for a given monitored medium; or
 - g. To any aspect of monitoring or QA/QC after receiving and analyzing such a report, the Regional Board's Executive Officer either shall reject the proposal for reasons listed, or shall incorporate it, along with any necessary changes, into the attached Monitoring and Reporting Program. The discharger shall implement any changes in the Monitoring and Reporting Program proposed by the Regional Board's Executive Officer upon receipt of a revised Monitoring and Reporting Program.

The report due date is within two (2) months of realizing that a change is appropriate, or of being notified by the Regional Board's Executive Officer.

I, Philip A. Gruenberg, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on November 13, 2002.

PHIL GRUENBERG
Executive Officer